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AUTHOR Copa, George H.; Irvin, Donald E., Jr.
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ABSTRACT

Effective planning of vocational education programs requires information about both the educational demand of individuals and the manpower demands of business and industry. Two characteristics of the manpower demand in Minnesota which are defined and estimated in this report are occupational demand, the total number of employment positions in a given geographic area, and unfilled positions, the number of positions to be newly filled in a given time period. Occupational demand for a specific occupation may be defined as the number of positions in the occupation last year plus the average annual growth or decline in positions. Thus, unfilled positions in the occupation may be defined as the average annual growth or decline in positions plus the annual number of positions vacated by worker withdrawal. The methods used to estimate occupational demand and unfilled positions are detailed in the report, along with tabular data for the State, for the Minneapolis-St. Paul metropolitan area, and for the 11 economic regions of the State. Limitations of the estimates and assumptions made are pointed out. No implications are drawn as to how demand will be filled by supply; only the total number of positions (occupational demand) and the number of unfilled positions have been estimated. The purpose of this report is to supplement existing information provided by the Minnesota Department of Manpower Services. (MF)

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FOR VOCATIONAL EDUCATION
University of Minnesota, Minneapolis, Minnesota 55455



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**OCCUPATIONAL
DEMAND
IN
MINNESOTA
FOR
1973**

**GEORGE H. COPA AND
DONALD E. IRVIN, JR.**

JULY, 1972



**MINNESOTA RESEARCH COORDINATING UNIT
FOR VOCATIONAL EDUCATION
University of Minnesota Minneapolis, Minnesota 55455**

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OCCUPATIONAL DEMAND IN MINNESOTA FOR 1973

Effective planning of vocational education programs requires information about both the educational demand of individuals and the manpower demands of business and industry. Educational demands of individuals refer to the scope and kind of training that is consistent with individual needs and abilities to benefit from vocational education. Manpower demands of business and industry refer to the number and kind of occupational positions needed to be filled in terms of training requirements, and where and when the positions are available.

The purpose of this report is to supplement existing information on the manpower demands of business and industry in Minnesota. As a supplement, the information should be used and interpreted with other pertinent information, which may be more specific to a particular problem, situation, or location.

Two characteristics of the manpower demand in Minnesota are defined and estimated in this report. These characteristics are occupational demand and unfilled positions.

Occupational demand is defined as the total number of employment positions in a given geographic area, such as a state or an economic region. This characteristic describes the scope or size of an occupation in terms of total number of positions. The second characteristic, unfilled positions, is defined as the number of positions which are to be newly filled in a given time period; it is part of occupational demand. Unfilled positions more specifically define the number of new employees needed during a time period.

The Minnesota Department of Manpower Services provides Minnesota with an estimate of occupational demand for 1968 and 1975.¹ These estimates are based on projected industry growth in Minnesota, projected occupational staffing of industries for the Nation, and Census reports on occupational and industrial categorization of the jobs held by the population in Minnesota. Periodically, as new information becomes available (such as the 1970 Census) these estimates of occupational demand will be updated.

A gross estimate of unfilled positions in each of several occupations can be derived by considering two major factors. The first is average growth or decline in occupational demand for a given occupation. Growth is addition of new positions over time, while decline is the elimination of existing positions over time. The second factor is the annual replacement of workers who die, retire, or withdraw from the labor force for other reasons.

Using these factors and a year as the appropriate time period, occupational demand for a specific occupation can be defined as the number of positions in the occupation last year plus the average annual growth or decline in positions. Similarly, unfilled positions in the occupation can be defined as the average annual growth or decline in positions plus the annual number of positions which were vacated because of death, retirement, or worker withdrawal for other reasons.

¹"1975 Employment, Minnesota and Minneapolis-St. Paul Metropolitan Area and 11 Economic Regions", Minnesota Department of Manpower Services, St. Paul, Minnesota, January, 1970.

The next section of this report describes how these factors were specifically calculated and combined in the estimation of occupational demand and unfilled positions for 1973. The same methods can be used to generate estimates for other future periods.

METHOD OF ESTIMATION

In this section of the report, the estimates of occupational demand and unfilled positions for 1973 for the nine broadest occupational categories in the state of Minnesota will be used to illustrate how specific calculations were made. Occupational demand for 1973 is the first estimate which will be described. It is derived by using data supplied by the Minnesota Department of Manpower Services.² They provide occupational demand estimates for 1968 and 1975 using a linear projection.³ Average annual growth or decline can be estimated by subtracting the number of positions estimated for 1968 from the number of positions in 1975 and dividing by seven (the number of years between 1968 and 1975). As an example from Table 1, there were 256,469 professional positions projected for 1975 and 213,304 professional positions estimated in 1968. Subtracting 213,304 from 256,469 and dividing by seven gives the estimated average growth of 6,166 positions. The annual growth or decline for professionals shown in Table 1 is 6,148; the discrepancy between 6,166 and 6,148 was caused by rounding errors when annual growth or decline was calculated for each of the professionals. In making this calculation, it is assumed that occupational demand grows or declines by a constant annual rate between 1968 and 1975. This means that only general trends in occupational demand are considered; no attempt has been made to take into account year to year changes in the national, state, or local economy which may have a very specific and significant impact on yearly occupational demand.

Estimated occupational demand for 1972 is calculated by multiplying average annual growth or decline by four and adding this product to estimated 1968 occupational demand. Adding one more year of annual growth or decline to the 1972 estimated occupational demand gives 1973 occupational demand. The results of these calculations are shown in Table 2.

The second characteristic to be calculated is unfilled positions. Unfilled positions is the sum of annual growth or decline in demand plus annual number of positions which must be replaced because they were vacated by workers who died, retired, or left the position for some other reason. Annual growth or decline in demand has already been calculated. Annual replacement positions is

²Ibid.

³The occupation of farmer and farm worker as reported by the Minnesota Department of Manpower services was further sub-divided into three occupations: (a) farmers on farms in economic classification I-IV (defined by the Census of Agriculture, 1969, as those having sales of farm products of \$5000 or more), (b) other farmers (includes those with farm sales of \$4999 or less, part-time and part-retired farm operators, and abnormal farms), and (c) farm workers, using information from the 1959, 1964, and 1969 Census of Agriculture: Minnesota, U.S. Department of Commerce, Bureau of the Census.

Table 1

MINNESOTA ANNUAL GROWTH OR
DECLINE IN OCCUPATIONAL DEMAND

Occupation	1968 Demand	1975 Demand	Annual Growth or Decline
Professional	213,304	256,469	6,148
Managers	125,066	135,596	1,504
Clerical	231,120	271,466	5,758
Sales	111,359	122,202	1,549
Craftsmen	193,052	218,035	3,561
Operatives	228,543	259,004	4,348
Service	180,768	208,162	3,909
Farmers and Farm Workers	132,696	102,226	-4,352
Laborers (exc. Farm & Mine)	50,708	49,228	-211

Table 2

MINNESOTA OCCUPATIONAL DEMAND 1973

Occupation	1972 Demand	Annual Growth or Decline	1973 Demand
Professional	238,899	6,148	245,047
Managers	131,082	1,504	132,586
Clerical	254,152	5,758	259,910
Sales	117,555	1,549	119,104
Craftsmen	207,296	3,561	210,857
Operatives	245,935	4,348	250,283
Service	196,404	3,909	200,313
Farmers and Farm Workers	115,288	-4,352	110,936
Laborers (exc. Farm & Mine)	49,864	-211	49,653

derived by multiplying a replacement percentage times the occupational demand in the last time period (1972 for this report). Replacement percentages vary between occupations and by sex of employees. To calculate replacement rates for specific occupations, the number of males and females in the occupation must first be estimated. In this report the percent male and female for occupational categories was derived from the 1960 Census of Population.⁴ The rate for the next broadest occupational category was used for occupations which did not have a male-female percentage reported. The number and percent of males and females in each of the broad occupational categories for 1972 is shown in Table 3. It was assumed that the male-female percentages by occupation remained constant between 1960 and 1972. The validity of this assumption was checked by comparing the male-female percentages for the nine broadest occupational categories for 1960 and 1970⁵ (this was the finest occupational grouping with a sex distribution available from the 1970 Census of Population for Minnesota at this time). The largest deviation for one of the nine occupational categories between 1960 and 1970 was 11 percentage points for clerical and craftsmen. The average deviation in male-female percentages between 1960 and 1970 for the nine broad occupational groups was 4.1 percentage points.

Table 3
PERCENT AND NUMBER OF MALES AND FEMALES
IN 1972 OCCUPATIONAL DEMAND FOR MINNESOTA

Occupation	1972 Demand	% Male	No. Male	% Female	No. Female
Professional	238,889	59	140,945	41	97,944
Managers	131,082	87	114,041	13	17,041
Clerical	254,152	32	81,329	68	172,823
Sales	117,555	63	74,060	37	43,495
Craftsmen	207,296	97	201,077	3	6,219
Operatives	245,935	77	189,370	23	56,565
Service	196,404	32	62,849	68	133,555
Farmers and Farm Workers	115,288	92	106,065	8	9,223
Laborers (exc. Farm & Mine)	49,864	97	48,368	3	1,496

⁴1960 Census of the Population: General Population Characteristics: Minnesota, U.S. Department of Commerce, Bureau of the Census.

⁵"1970 Census of Population - Fourth Count - Minnesota", Minnesota Analysis and Planning Systems, St. Paul, Minnesota, March, 1972.

After the number of males and females in each occupation is calculated, the number of replacements for each sex can be calculated by multiplying the number of persons of a given sex in an occupation by the replacement rate for that sex and occupation. For example, from Table 4, there are 140,945 male professionals and the replacement rate for male professionals is 1.6 percent. Multiplying 140,945 by .016 results in an estimated annual number of replacements of 2,255. The results for female professionals and the other broad occupational categories is also shown in Table 4. Total number of replacements for a given occupation is the sum of male and female replacements for that occupation. For professionals, the total estimated replacements needed is 2,255 plus 4,799 or 7,054; the discrepancy between 7,054 and 6,495, the number of professional replacements needed as shown in Table 4, is caused by the use of specific male-female percentages and replacement rates for each individual professional occupation and summing over occupations to get total replacements for professionals.

Table 4

MINNESOTA REPLACEMENT RATES AND NUMBERS
BY SEX AND OCCUPATION, 1973

Occupation	Total Male	Male Replacement Rate	Number of Male Replacements	Total Female	Female Replacement Rate	Number of Female Replacements	Total Number of Replacements
Professional	140,945	1.6	2,255	97,944	4.9	4,799	6,495
Manager	114,041	2.5	2,851	17,041	4.7	801	3,136
Clerical	81,329	1.8	1,464	172,823	4.9	8,468	10,140
Sales	74,060	2.0	1,481	43,495	4.7	2,044	3,525
Craftsmen	201,077	1.9	3,820	6,219	4.3	267	3,836
Operatives	189,370	1.5	2,841	56,565	4.1	2,319	4,857
Service	62,849	2.7	1,697	133,555	4.7	6,277	7,885
Farmers and Farm Workers	106,065	2.6	2,758	9,223	2.6	240	3,045
Laborers (exc. Farm & Mine)	48,368	1.7	822	1,496	4.7	70	892

The replacement rates, except for farmers, used in this report were derived by the U.S. Department of Labor.⁶ The rates are based on labor force participation

⁶"Tomorrow's Manpower Needs", U.S. Department of Labor, Bureau of Labor Statistics, Volume 1, Bulletin No. 1606, February, 1969. The replacement rates for farmers was derived from information presented in the 1969 Census of Agriculture: Minnesota, U.S. Department of Commerce, Bureau of the Census, 1971.

rate and age distribution of employees in each of several occupations. Replacements include employment positions vacated for reasons of death, retirement or some other reason.

Unfilled positions is calculated by adding annual growth and decline (Table 1) and annual replacements (Table 4). In making this calculation, two assumptions are made. First, it is assumed that all persons who die, retire, or leave the labor force for other reasons leave a position which will again be filled. Second, it is assumed that when annual growth or decline is negative (the number in the occupation is decreasing), the employees losing their jobs will have first priority on unfilled, replacement positions. This latter assumption may not be realistic for some occupations. For example, persons in the occupation of farmer are self employed and when they go out of business, for reasons other than specified under annual replacement, they do not usually buy another farm. With these assumptions enforced, unfilled positions for each of the nine broadest occupational categories are shown in Table 5.

Table 5
MINNESOTA UNFILLED POSITIONS IN 1973

Occupation	Annual Growth or Decline	Annual Replacements	Unfilled Positions
Professional	6,148	6,495	12,643
Manager	1,504	3,136	4,640
Clerical	5,758	10,140	15,898
Sales	1,549	3,525	5,074
Craftsmen	3,561	3,836	7,397
Operatives	4,348	4,857	9,205
Service	3,909	7,885	11,794
Farmers and Farm Workers	-4,352	3,045	-1,307
Laborers (exc. Farm & Mine)	-211	892	681

INTERPRETATION OF ESTIMATES

The format for the tables which are shown in the next section of this report are the same as in Table 6. Occupational demand represents an estimate of the total number of employment positions in a given geographic area (stated in the table heading) for the specified occupation in 1973. The second and third columns, respectively, contain estimates of annual growth or decline in positions and annual number of positions to be replaced because employees vacated the positions by death, retirement or other reasons. The fourth column contains an estimate of unfilled positions in 1973 for the given geographic area and specified occupation. It is a sum of annual growth or decline and annual replacements (columns 2 and 3). The last column contains the percent of total unfilled positions represented by the unfilled positions in the specified occupation. For example, in Minnesota for 1973 there is a total estimated unfilled positions of 66,025 which is calculated by summing across all the occupational groups in Table 6. Of this total, 12,643 are unfilled professional positions; therefore, professional unfilled positions represent 12,643 divided by 66,025 multiplied by 100 or 19.4 percent of the State's total unfilled positions. This percentage indicates the relative number of unfilled positions in a particular occupation compared to total unfilled positions.

Table 6

MINNESOTA OCCUPATIONAL DEMAND AND UNFILLED POSITIONS FOR 1973

Occupation	1973 Demand	Estimated Annual Growth or Decline	Estimated Annual Replacement	1973 Estimated Unfilled Positions	% of Total Unfilled Positions
Professional	245,047	6,148	6,495	12,643	19.2
Managers	132,586	1,504	3,136	4,640	7.0
Clerical	259,910	5,758	10,140	15,898	24.1
Sales	119,104	1,549	3,525	5,074	7.7
Craftsmen	210,857	3,561	3,836	7,397	11.2
Operatives	250,283	4,348	4,857	9,205	13.9
Service	200,313	3,909	7,885	11,794	17.9
Farmers and Farm Workers	110,936	-4,352	3,045	-1,307	-2.0
Laborers (exc. Farm & Mine)	49,653	-211	892	681	1.0
TOTAL				66,025	100.0

The next section of this report presents occupational demand and unfilled positions for 1973 in (a) Minnesota, (b) Minneapolis-St. Paul metropolitan area, (c) outstate Minnesota, excluding the Minneapolis-St. Paul metropolitan area, and (d) the 11 economic regions. For the first three geographic areas, the information is presented for 151 unique occupations. For the 11 economic regions, only 44 occupations are used because of the reduction in total number of employees for regions as compared to the State. A map showing the 11 economic regions is provided in the Appendix.

The reader is cautioned in interpreting the information reported on occupational demand and unfilled positions. Interpretation should be tempered by noting that the numbers are estimates based on several assumptions and limitations. Assumptions have already been pointed out where they were appropriate. An additional assumption is that in calculating number of replacements for a given occupation in an economic region, the percent males and females in the occupation and the replacement rate for males and females are assumed to be the same as for the total state for that occupation. The limitations of the estimates are that only the major factors affecting occupational demand and unfilled positions, namely growth and decline and replacements, are considered. The impact of factors such as yearly changes in economic conditions and geographic mobility of employers have not been used in making the estimates. The validity of the assumptions and the impact of the limitations become more critical as the geographic region and the number of persons in a given occupation become smaller.

No attempt has been made to estimate the amount of error in the estimates. It is reasonable to conclude that the percent error is smaller for the larger numeric estimate than for the very small estimate. The relative size of estimates between occupations may be more accurate than the absolute estimate for a given occupation. As stated in the introduction to this report, information presented in the following tables should be used to supplement existing information.

Lastly, the information is an estimate of demand. It makes no implications of how demand will be filled by supply. Only the number total of positions (occupational demand) and the number of unfilled positions has been estimated. These latter positions could be filled by persons currently available for employment or employed as well as persons who in the past have been unavailable for employment (students, homemakers, ex-military service persons, etc.)

MINNESOTA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	1578689	22214	43811	66025	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	245047	6148	6495	12643	19.15
ENGINEERS, TECHNICAL.....	26782	990	335	1325	2.01
ENGINEERS, AERONAUTICAL.....	420	15	3	18	0.03
ENGINEERS, CHEMICAL.....	815	23	7	30	0.05
ENGINEERS, CIVIL.....	3929	107	72	179	0.27
ENGINEERS, ELECTRICAL.....	5952	228	59	287	0.43
ENGINEERS, INDUSTRIAL.....	4279	193	46	239	0.36
ENGINEERS, MECHANICAL.....	5233	182	70	252	0.38
ENGINEERS, METALLURGICAL.....	329	11	4	15	0.02
ENGINEERS, MINING.....	382	9	5	14	0.02
ENGINEERS, OTHER.....	5443	222	69	291	0.44
NATURAL SCIENTISTS.....	4315	140	54	194	0.29
CHEMISTS.....	2671	80	37	117	0.18
AGRICULTURAL SCIENTISTS.....	247	6	3	9	0.01
BIOLOGICAL SCIENTISTS.....	414	14	7	21	0.03
GEOLOGISTS, GEOPHYSICISTS.....	92	3	0	3	0.00
MATHEMATICIANS.....	395	17	3	20	0.03
PHYSICISTS.....	397	19	3	22	0.03
OTHER NATURAL SCIENTISTS.....	99	1	1	2	0.00
TECHNICIANS, EXC. MED. & DENTAL....	22796	875	287	1162	1.76
DRAFTSMEN.....	7034	215	62	277	0.42
SURVEYORS.....	1576	54	18	72	0.11
RADIO OPERATORS.....	694	14	7	21	0.03
TECHNICIANS, OTHER.....	13492	592	200	792	1.20
MEDICAL, OTHER HEALTH WORKERS.....	44859	1036	1702	2738	4.15
DENTISTS.....	2345	19	59	78	0.12
DIETICIANS, NUTRITIONISTS.....	561	3	25	28	0.04
NURSES, PROFESSIONAL.....	19755	440	880	1320	2.00
OPTOMETRISTS.....	341	-1	8	7	0.01
OSTEOPATHS.....	57	0	1	1	0.00
PHARMACISTS.....	1877	-10	56	46	0.07
PHYSICIANS & SURGEONS.....	6853	139	177	316	0.48
PSYCHOLOGISTS.....	573	22	9	31	0.05
TECHNICIANS, MEDICAL & DENTAL....	8635	417	336	753	1.14
VETERINARIANS.....	641	5	12	17	0.03
OTHER HEALTH WORKERS.....	3221	2	139	141	0.21
TEACHERS.....	57264	658	1951	2609	3.95
ELEMENTARY.....	25217	-122	1103	981	1.49
SECONDARY.....	20158	444	525	969	1.47
COLLEGE.....	7926	263	189	452	0.68
OTHER.....	3963	73	134	207	0.31
SOCIAL SCIENTISTS.....	1061	26	21	47	0.07

MINNESOTA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
ECONOMISTS.....	457	12	7	19	0.03
STATISTICIANS & ACTUARIES.....	537	12	12	24	0.04
OTHER.....	67	2	2	4	0.01
OTHER PROF., TECH., & KINDRED.....	87970	2423	2145	4568	6.92
ACCOUNTANT & AUDITORS.....	15909	406	352	758	1.15
AIRPLANE PILOTS & NAVIGATORS.....	1341	53	16	69	0.10
ARCHITECTS.....	958	19	23	42	0.06
WKRS. IN ARTS & ENTERTAINMENT.....	14451	298	443	741	1.12
CLERGYMEN.....	6488	30	169	199	0.30
DESIGNERS, EXC. DESIGN DRAFTS....	1488	45	28	73	0.11
EDITORS & REPORTERS.....	2835	-116	88	-28	-0.04
LAWYERS & JUDGES.....	5211	69	151	220	0.33
LIBRARIANS.....	3032	44	144	188	0.28
PERSONNEL & LABOR RELATED WKRS...	3220	105	67	172	0.26
PHOTOGRAPHERS.....	1121	10	21	31	0.05
SOCIAL & WELFARE WORKERS.....	3973	147	125	272	0.41
PROF., TECH., KIND., NEC.....	27943	1313	518	1831	2.77
MANAGERS, OFFICIALS, PROPRIETORS.....	132586	1504	3136	4640	7.03
CONDUCTORS, R.R.....	773	-2	29	27	0.04
CREDITMEN.....	1799	54	41	95	0.14
OFFICERS, PILOTS, ENG. SHIP.....	187	2	3	5	0.01
PURCHASING AGENTS.....	3485	89	68	157	0.24
POSTMASTERS & ASSISTANTS.....	839	-16	34	18	0.03
OTHER MANAGERS, OFF., PROP. NEC.....	125503	1377	2961	4338	6.57
CLERICAL & KINDRED.....	259910	5758	10140	15898	24.08
STENOS, TYPISTS, SECRETARIES.....	65594	1755	3150	4905	7.43
OFFICE MACHINE OPERATORS.....	11737	410	455	865	1.31
OTHER CLERICAL & KINDRED.....	182579	3593	6535	10128	15.34
ACCOUNTING CLERKS.....	1916	16	84	100	0.15
BOOKKEEPERS, HAND.....	25423	313	1030	1343	2.03
BANK TELLERS.....	4324	165	154	319	0.48
CASHIERS.....	15258	547	606	1153	1.75
MAIL CARRIERS.....	6136	93	99	192	0.29
POSTAL CLERKS.....	6546	96	126	222	0.34
SHIPPING, RECEIVING CLERKS.....	5571	41	94	135	0.20
TELEPHONE OPERATORS.....	7794	111	371	482	0.73
CLERICAL & KINDRED WORKERS NEC...	109611	2211	3971	6182	9.36
SALES WORKERS.....	119104	1549	3525	5074	7.68

MINNESOTA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
CRAFTSMEN.....	210857	3561	3836	7397	11.20
CONSTRUCTION CRAFTS.....	50176	380	974	1354	2.05
CARPENTERS.....	16369	-18	376	358	0.54
BRICKMASON & TILE SETTERS.....	3693	29	54	83	0.13
CEMENT, CONCRETE FINISHERS.....	987	24	14	38	0.06
ELECTRICIANS.....	7028	91	110	201	0.30
EXCAVATING, GRADING MACH. OP.....	5268	88	67	155	0.23
PAINTERS & PAPER HANGERS.....	6607	-16	171	155	0.23
PLASTERERS.....	1061	6	18	24	0.04
PLUMBERS & PIPEFITTERS.....	7292	134	128	262	0.40
ROOFERS & SLATERS.....	820	12	16	28	0.04
STRUCTURAL METAL WORKERS.....	1051	30	20	50	0.08
FOREMEN, NEC.....	29768	782	583	1365	2.07
METAL WORKING CRAFTS.....	24840	311	465	776	1.18
MACHINISTS & RELATED.....	12458	97	250	347	0.53
BLACKSMITHS, FORGEMEN, HAMMER.....	550	-21	19	-2	-0.00
BOILERMAKERS.....	281	1	5	6	0.01
HEAT TREATERS, ANNEALERS.....	230	2	4	6	0.01
MILLWRIGHTS.....	1519	33	28	61	0.09
MOLDERS, METAL EXC., COREMAKERS....	1016	13	16	29	0.04
PATTERNMAKERS, METAL & WOOD.....	756	16	15	31	0.05
ROLLERS & ROLL HANDS.....	138	2	2	4	0.01
SHEET METAL WORKERS.....	3866	73	56	129	0.20
TOOL MAKERS & DIEMAKERS.....	4026	95	70	165	0.25
PRINTING TRADE CRAFTS.....	7805	59	143	202	0.31
COMPOSITORS TYPESETTERS.....	3737	-46	80	34	0.05
ELECTROTYPERS, STEREOTYPERS.....	136	-6	2	-4	-0.01
ENGRAVERS EXC. PHOTOENGRAVER.....	252	6	6	12	0.02
PHOTOENGRAVER, LITHOGRAPHERS.....	1340	60	20	80	0.12
PRESSMEN & PLATE PRINTERS.....	2340	45	35	80	0.12
TRANSPORTATION & OTHER PUB.UTL....	7958	72	123	195	0.30
LINEMEN & SERVICEMEN.....	6296	118	57	175	0.27
LOCOMOTIVE ENGINEERS.....	1440	-1	63	62	0.09
LOCOMOTIVE FIREMAN.....	222	-45	3	-42	-0.06
MECHANICS & REPAIRMEN.....	62837	1495	1048	2543	3.85
AIRPLANE.....	2863	59	28	87	0.13
MOTOR VEHICLE.....	18835	239	241	480	0.73
OFFICE MACHINE.....	1347	42	11	53	0.08
RADIO & TV MECHANICS.....	2254	5	20	25	0.04
RAILROAD & CARSHOP.....	738	-1	19	18	0.03
OTHER MECHANICS.....	36800	1151	729	1880	2.85
OTHER CRAFTSMEN & KINDRED.....	27473	462	500	962	1.46

MINNESOTA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BAKERS.....	2205	-14	60	46	0.07
CABINETMAKERS.....	1864	32	47	79	0.12
CRANE DERRICK, HOISTMEN.....	2138	53	35	88	0.13
GLAZIERS.....	498	17	6	23	0.03
JEWELERS & WATCHMAKERS.....	692	-2	19	17	0.03
OPTICIANS, LENS GRINDERS.....	578	2	10	12	0.02
INSPECTORS, LOG & LUMBER.....	198	4	4	8	0.01
INSPECTORS, OTHER.....	1977	37	48	85	0.13
UPHOLSTERERS.....	1264	14	24	38	0.06
CRAFTSMEN & KINDRED, NEC.....	16059	319	247	566	0.86
OPERATIVES.....	250283	4348	4857	9205	13.94
SELECTED TRANS. & UTILITY OPER....	60131	979	855	1834	2.78
DRIVERS, BUS, TRUCK, TRACTOR....	43820	715	527	1242	1.88
DELIVERYMEN & ROUTEMEN.....	13104	265	272	537	0.81
BRAKEMEN & SWITCHMEN, R.R.....	2597	-1	46	45	0.07
POWER STATION OPERATORS.....	395	0	7	7	0.01
SAILORS & DECKHANDS.....	215	0	3	3	0.00
SEMISKILLED METAL WORKERS.....	36847	997	718	1715	2.60
FURNACEMEN, SMELTER, POWERS.....	506	6	7	13	0.02
HEATERS, METAL.....	103	2	2	4	0.01
WELDERS, & FLAMECUTTERS.....	12442	413	151	564	0.85
ASSEMBLERS.....	23796	576	558	1134	1.72
SEMISKILLED TEXTILE WORKERS.....	4009	56	164	220	0.33
KNITTERS, LOOPERS, TOPPERS.....	80	1	3	4	0.01
SPINNERS.....	32	0	0	0	0.0
WEAVERS.....	127	-1	4	3	0.00
SEWERS & STITCHERS, MFG.....	3770	56	157	213	0.32
OTHER OPERATIVES.....	149296	2316	3120	5436	8.23
ASBESTOS, INSULATION WORKERS.....	381	8	5	13	0.02
ATTENDANTS, AUTO SERVICE.....	10920	211	114	325	0.49
BLASTERERS & POWDERMEN.....	134	1	1	2	0.00
LAUNDRY & DRY CLEANING OP.....	6810	22	262	284	0.43
MEAT CUTTERS EXC. MEAT PKG.....	3464	15	70	85	0.13
MINE OPERATIVES & LABORERS.....	4072	-8	57	49	0.07
OTHER OPERATIVES, NEC.....	123515	2067	2611	4678	7.09
SERVICE WORKERS.....	200313	3909	7885	11794	17.86
PRIVATE HOUSEHOLD WKRS.....	24757	-392	1418	1026	1.55
PROTECTIVE SERVICE WORKERS.....	12347	340	300	640	0.97
FIREMEN.....	2627	87	68	155	0.23
GUARDS, WATCHMEN.....	3398	33	145	178	0.27
POLICEMEN, OTHER LAW ENF.....	6322	220	87	307	0.46
WAITERS, COOKS, BARTENDERS.....	61377	1282	2360	3642	5.52

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ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BARTENDERS.....	6456	111	164	275	0.42
COOKS EXC. PRIVATE HOUSEHOLDS....	20507	439	806	1245	1.89
COUNTER & FOUNTAIN WORKERS.....	4078	149	161	310	0.47
WAITERS & WAITRESSES.....	30336	583	1229	1812	2.74
OTHER SERVICE WORKERS.....	101832	2679	3807	6486	9.82
ATTENDANTS, HOSP. & OTHER INST...	22708	941	885	1826	2.77
CHARWOMEN & CLEANERS.....	6732	179	294	473	0.72
JANITORS & SEXTONS.....	21022	342	862	1204	1.82
NURSES, PRACTICAL.....	7696	313	411	724	1.10
SERVICE WORKERS, NEC.....	43674	904	1355	2259	3.42
FARMERS & FARM WORKERS.....	110936	-4352	3045	-1307	-1.98
FARMERS IN ECON. CLASSES I-IV.....	75436	-905	1679	774	1.17
OTHER FARMERS.....	26292	-3094	1204	-1890	-2.86
FARM WORKERS.....	9208	-353	162	-191	-0.29
LABORERS EXC. FARM & MINE.....	49653	-211	892	681	1.03

MINNEAPOLIS-ST. PAUL METROPOLITAN AREA
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	846157	18069	23476	41545	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	151622	4784	3716	8500	20.46
ENGINEERS, TECHNICAL.....	21839	800	268	1068	2.57
ENGINEERS, AERONAUTICAL.....	324	8	2	10	0.02
ENGINEERS, CHEMICAL.....	746	20	6	26	0.06
ENGINEERS, CIVIL.....	2617	72	40	120	0.29
ENGINEERS, ELECTRICAL.....	5160	194	51	245	0.59
ENGINEERS, INDUSTRIAL.....	3468	153	37	190	0.46
ENGINEERS, MECHANICAL.....	4366	148	59	207	0.50
ENGINEERS, METALLURGICAL.....	242	9	3	12	0.03
ENGINEERS, MINING.....	44	0	0	0	0.0
ENGINEERS, OTHER.....	4872	196	62	258	0.62
NATURAL SCIENTISTS.....	3459	117	42	159	0.38
CHEMISTS.....	2128	65	29	94	0.23
AGRICULTURAL SCIENTISTS.....	115	3	1	4	0.01
BIOLOGICAL SCIENTISTS.....	308	11	5	16	0.04
GEOLOGISTS, GEOPHYSICISTS.....	92	3	0	3	0.01
MATHEMATICIANS.....	388	17	3	20	0.05
PHYSICISTS.....	352	17	3	20	0.05
OTHER NATURAL SCIENTISTS.....	76	1	1	2	0.00
TECHNICIANS, EXC. MED. & DENTAL.....	16695	647	208	855	2.06
DRAFTSMEN.....	5863	181	52	233	0.56
SURVEYORS.....	620	23	7	30	0.07
RADIO OPERATORS.....	484	6	5	11	0.03
TECHNICIANS, OTHER.....	9728	437	144	581	1.40
MEDICAL, OTHER HEALTH WORKERS.....	26438	828	1001	1829	4.40
DENTISTS.....	1325	22	33	55	0.13
DIETICIANS, NUTRITIONISTS.....	389	5	17	22	0.05
NURSES, PROFESSIONAL.....	11747	353	519	872	2.10
OPTOMETRISTS.....	122	0	3	3	0.01
OSTEOPATHS.....	15	0	0	0	0.0
PHARMACISTS.....	1017	-1	30	29	0.07
PHYSICIANS & SURGEONS.....	3919	110	100	210	0.51
PSYCHOLOGISTS.....	481	21	8	29	0.07
TECHNICIANS, MEDICAL & DENTAL.....	5502	301	212	513	1.23
VETERINARIANS.....	120	1	2	3	0.01
OTHER HEALTH WORKERS.....	1801	16	77	93	0.22
TEACHERS.....	25400	453	841	1294	3.11
ELEMENTARY.....	10301	1	448	449	1.08
SECONDARY.....	7819	207	202	409	0.98
COLLEGE.....	5321	199	126	325	0.78
OTHER.....	1959	46	65	111	0.27
SOCIAL SCIENTISTS.....	978	25	19	44	0.11

MINNEAPOLIS-ST. PAUL METROPOLITAN AREA
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
ECONOMISTS.....	435	12	7	19	0.05
STATISTICIANS & ACTUARIES.....	497	12	11	23	0.06
OTHER.....	46	1	1	2	0.00
OTHER PROF., TECH., & KINDRED.....	56813	1914	1337	3251	7.83
ACCOUNTANT & AUDITORS.....	12565	346	277	623	1.50
AIRPLANE PILOTS & NAVIGATORS.....	1265	55	15	70	0.17
ARCHITECTS.....	770	18	18	36	0.09
WKRS. IN ARTS & ENTERTAINMENT....	7861	193	240	433	1.04
CLERGYMEN.....	2083	20	54	74	0.18
DESIGNERS, EXC. DESIGN DRAFTS....	1242	40	23	63	0.15
EDITORS & REPORTERS.....	1544	15	46	61	0.15
LAWYERS & JUDGES.....	3431	59	99	158	0.38
LIBRARIANS.....	1675	33	79	112	0.27
PERSONNEL & LABOR RELATED WKRS...	2423	82	50	132	0.32
PHOTOGRAPHERS.....	729	9	13	22	0.05
SOCIAL & WELFARE WORKERS.....	2407	90	76	166	0.40
PROF., TECH., KIND., NEC.....	18818	954	347	1301	3.13
MANAGERS, OFFICIALS, PROPRIETORS.....	70133	1084	1641	2725	6.56
CONDUCTORS, R.R.....	264	0	10	10	0.02
CREDITMEN.....	1460	52	33	85	0.20
OFFICERS, PILOTS, ENG. SHIP.....	21	0	0	0	0.0
PURCHASING AGENTS.....	2437	64	47	111	0.27
POSTMASTERS & ASSISTANTS.....	56	-1	2	1	0.00
OTHER MANAGERS, OFF., PROP. NEC.....	65895	969	1549	2518	6.06
CLERICAL & KINDRED.....	177821	4270	6942	11212	26.99
STENOS, TYPISTS, SECRETARIES.....	47005	1324	2254	3578	8.61
OFFICE MACHINE OPERATORS.....	10333	391	399	790	1.90
OTHER CLERICAL & KINDRED.....	120483	2555	4289	6844	16.47
ACCOUNTING CLERKS.....	1408	12	61	73	0.18
BOOKKEEPERS, HAND.....	13464	232	543	775	1.87
BANK TELLERS.....	2157	104	76	180	0.43
CASHIERS.....	9848	374	390	764	1.84
MAIL CARRIERS.....	3066	30	50	80	0.19
POSTAL CLERKS.....	4203	39	81	120	0.29
SHIPPING, RECEIVING CLERKS.....	4380	36	73	109	0.26
TELEPHONE OPERATORS.....	4367	73	207	280	0.67
CLERICAL & KINDRED WORKERS NEC...	77590	1655	2808	4463	10.74
SALES WORKERS.....	70829	1189	2088	3277	7.89

MINNEAPOLIS-ST. PAUL METROPOLITAN AREA
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
CRAFTSMEN.....	116865	2156	2112	4268	10.27
CONSTRUCTION CRAFTS.....	23951	224	467	691	1.66
CARPENTERS.....	6711	7	154	161	0.39
BRICKMASON & TILE SETTERS.....	2001	20	29	49	0.12
CEMENT, CONCRETE FINISHERS.....	659	18	9	27	0.06
ELECTRICIANS.....	3509	50	55	105	0.25
EXCAVATING, GRADING MACH. OP.....	1302	26	16	42	0.10
PAINTERS & PAPER HANGERS.....	3945	3	102	105	0.25
PLASTERERS.....	634	6	10	16	0.04
PLUMBERS & PIPEFITTERS.....	4019	81	70	151	0.36
ROOFERS & SLATERS.....	503	9	9	18	0.04
STRUCTURAL METAL WORKERS.....	668	4	13	17	0.04
FOREMEN, NEC.....	17543	481	343	824	1.98
METAL WORKING CRAFTS.....	18353	228	340	568	1.37
MACHINISTS & RELATED.....	9733	67	195	262	0.63
BLACKSMITHS, FORGEMEN, HAMMER.....	157	-4	5	1	0.00
BOILERMAKERS.....	154	0	3	3	0.01
HEAT TREATERS, ANNEALERS.....	173	1	3	4	0.01
MILLWRIGHTS.....	722	17	13	30	0.07
MOLDERS, METAL EXC., COREMAKERS....	779	12	12	24	0.06
PATTERNMAKERS, METAL & WOOD.....	580	11	11	22	0.05
ROLLERS & ROLL HANDS.....	63	1	1	2	0.00
SHEET METAL WORKERS.....	2563	46	37	83	0.20
TOOL MAKERS & DIEMAKERS.....	3429	77	60	137	0.33
PRINTING TRADE CRAFTS.....	5497	48	99	147	0.35
COMPOSITORS TYPESETTERS.....	2249	-32	48	16	0.04
ELECTROTYPERS, STEREOTYPERS.....	110	-5	2	-3	-0.01
ENGRAVERS EXC. PHOTOENGRAVER.....	171	4	4	8	0.02
PHOTOENGRAVER, LITHOGRAPHERS.....	1185	51	18	69	0.17
PRESSMEN & PLATE PRINTERS.....	1782	30	27	57	0.14
TRANSPORTATION & OTHER PUB.UTL.....	3769	36	55	91	0.22
LINEMEN & SERVICEMEN.....	3039	57	27	84	0.20
LOCOMOTIVE ENGINEERS.....	624	1	27	28	0.07
LOCOMOTIVE FIREMAN.....	106	-22	1	-21	-0.05
MECHANICS & REPAIRMEN.....	32078	837	530	1367	3.29
AIRPLANE.....	2411	48	23	71	0.17
MOTOR VEHICLE.....	8066	118	103	221	0.53
OFFICE MACHINE.....	970	32	8	40	0.10
RADIO & TV MECHANICS.....	1170	9	10	19	0.05
RAILROAD & CARSHOP.....	405	0	10	10	0.02
OTHER MECHANICS.....	19056	630	376	1006	2.42
OTHER CRAFTSMEN & KINDRED.....	15674	302	278	580	1.40

MINNEAPOLIS-ST. PAUL METROPOLITAN AREA
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BAKERS.....	1090	-8	29	21	0.05
CABINETMAKERS.....	913	11	23	34	0.08
CRANE DERRICK, HOISTMEN.....	1030	28	17	45	0.11
GLAZIERS.....	290	12	3	15	0.04
JEWELERS & WATCHMAKERS.....	306	0	8	8	0.02
OPTICIANS, LENS GRINDERS.....	322	-1	6	5	0.01
INSPECTORS, LOG & LUMBER.....	74	1	1	2	0.00
INSPECTORS, OTHER.....	1145	23	28	51	0.12
UPHOLSTERERS.....	853	8	16	24	0.06
CRAFTSMEN & KINDRED, NEC.....	9651	228	147	375	0.90
OPERATIVES.....	131660	2420	2624	5044	12.14
SELECTED TRANS. & UTILITY OPER....	26852	466	390	856	2.06
DRIVERS, BUS, TRUCK, TRACTOR....	18368	325	220	545	1.31
DELIVERYMEN & ROUTEMEN.....	6685	136	139	275	0.66
BRAKEMEN & SWITCHMEN, R.R.....	1659	5	29	34	0.08
POWER STATION OPERATORS.....	122	0	2	2	0.00
SAILORS & DECKHANDS.....	18	0	0	0	0.0
SEMISKILLED METAL WORKERS.....	23669	572	484	1056	2.54
FURNACEMEN, SMELTER, POWERS.....	199	3	3	6	0.01
HEATERS, METAL.....	24	0	0	0	0.0
WELDERS, & FLAMECUTTERS.....	6130	204	74	278	0.67
ASSEMBLERS.....	17316	365	407	772	1.86
SEMISKILLED TEXTILE WORKERS.....	1570	19	63	82	0.20
KNITTERS, LOOPERS, TOPPERS.....	40	0	1	1	0.00
SPINNERS.....	6	0	0	0	0.0
WEAVERS.....	16	0	0	0	0.0
SEWERS & STITCHERS, MFG.....	1508	19	62	81	0.19
OTHER OPERATIVES.....	79569	1363	1687	3050	7.34
ASBESTOS, INSULATION WORKERS.....	252	6	3	9	0.02
ATTENDANTS, AUTO SERVICE.....	4692	119	48	167	0.40
BLASTERERS & POWDERMEN.....	6	0	0	0	0.0
LAUNDRY & DRY CLEANING OP.....	3621	29	139	168	0.40
MEAT CUTTERS EXC. MEAT PKG.....	1609	7	32	39	0.09
MINE OPERATIVES & LABORERS.....	74	0	1	1	0.00
OTHER OPERATIVES, NEC.....	69315	1202	1464	2666	6.42
SERVICE WORKERS.....	99030	2442	3815	6257	15.06
PRIVATE HOUSEHOLD WKRS.....	9863	-109	562	453	1.09
PROTECTIVE SERVICE WORKERS.....	5962	159	153	312	0.75
FIREMEN.....	1433	43	37	80	0.19
GUARDS, WATCHMEN.....	1903	32	80	112	0.27
POLICEMEN, OTHER LAW ENF.....	2626	84	36	120	0.29
WAITERS, COOKS, BARTENDERS.....	29580	778	1137	1915	4.61

MINNEAPOLIS-ST. PAUL METROPOLITAN AREA
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BARTENDERS.....	2630	59	66	125	0.30
COOKS EXC. PRIVATE HOUSEHOLDS....	9016	236	352	588	1.42
COUNTER & FOUNTAIN WORKERS.....	2880	116	113	229	0.55
WAITERS & WAITRESSES.....	15054	367	606	973	2.34
OTHER SERVICE WORKERS.....	53625	1614	1963	3577	8.61
ATTENDANTS, HOSP. & OTHER INST...	10445	512	404	916	2.20
CHARWOMEN & CLEANERS.....	2839	82	124	206	0.50
JANITORS & SEXTONS.....	10958	208	448	656	1.58
NURSES, PRACTICAL.....	3640	178	192	370	0.89
SERVICE WORKERS, NEC.....	25743	634	795	1429	3.44
FARMERS & FARM WORKERS.....	3376	-208	93	-115	-0.28
LABORERS EXC. FARM & MINE.....	24821	-68	445	377	0.91

OUTSTATE MINNESOTA EXCLUDING MPLS.-ST. PAUL AREA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	732302	4099	20255	24354	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	93355	1350	2755	4105	16.86
ENGINEERS, TECHNICAL.....	4923	186	62	248	1.02
ENGINEERS, AERONAUTICAL.....	91	6	0	6	0.02
ENGINEERS, CHEMICAL.....	69	3	0	3	0.01
ENGINEERS, CIVIL.....	1307	34	24	58	0.24
ENGINEERS, ELECTRICAL.....	787	33	7	40	0.16
ENGINEERS, INDUSTRIAL.....	811	40	8	48	0.20
ENGINEERS, MECHANICAL.....	867	34	11	45	0.18
ENGINEERS, METALLURGICAL.....	87	2	1	3	0.01
ENGINEERS, MINING.....	333	8	4	12	0.05
ENGINEERS, OTHER.....	571	26	7	33	0.14
NATURAL SCIENTISTS.....	846	21	10	31	0.13
CHEMISTS.....	543	15	7	22	0.09
AGRICULTURAL SCIENTISTS.....	127	2	2	4	0.02
BIOLOGICAL SCIENTISTS.....	101	2	1	3	0.01
GEOLOGISTS, GEOPHYSICISTS.....	0	0	0	0	0.0
MATHEMATICIANS.....	7	0	0	0	0.0
PHYSICISTS.....	45	2	0	2	0.01
OTHER NATURAL SCIENTISTS.....	23	0	0	0	0.0
TECHNICIANS, EXC. MED. & DENTAL.....	6096	227	79	306	1.26
DRAFTSMEN.....	1166	33	10	43	0.18
SURVEYORS.....	956	31	11	42	0.17
RADIO OPERATORS.....	210	8	2	10	0.04
TECHNICIANS, OTHER.....	3764	155	56	211	0.87
MEDICAL, OTHER HEALTH WORKERS.....	18426	209	698	907	3.72
DENTISTS.....	1025	-2	26	24	0.10
DIETICIANS, NUTRITIONISTS.....	172	-2	7	5	0.02
NURSES, PROFESSIONAL.....	8008	87	361	448	1.84
OPTOMETRISTS.....	219	-1	5	4	0.02
OSTEOPATHS.....	42	0	1	1	0.00
PHARMACISTS.....	865	-8	26	18	0.07
PHYSICIANS & SURGEONS.....	2934	29	76	105	0.43
PSYCHOLOGISTS.....	92	1	1	2	0.01
TECHNICIANS, MEDICAL & DENTAL.....	3128	115	123	238	0.98
VETERINARIANS.....	521	4	10	14	0.06
OTHER HEALTH WORKERS.....	1420	-14	62	48	0.20
TEACHERS.....	31854	203	1106	1309	5.37
ELEMENTARY.....	14911	-124	654	530	2.18
SECONDARY.....	12339	237	322	559	2.30
COLLEGE.....	2600	63	62	125	0.51
OTHER.....	2004	27	68	95	0.39
SOCIAL SCIENTISTS.....	78	0	0	0	0.0

OUTSTATE MINNESOTA EXCLUDING MPLS.-ST. PAUL AREA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
ECONOMISTS.....	22	0	0	0	0.0
STATISTICIANS & ACTUARIES.....	40	0	0	0	0.0
OTHER.....	16	0	0	0	0.0
OTHER PROF., TECH., & KINDRED.....	31132	504	800	1304	5.35
ACCOUNTANT & AUDITORS.....	3344	60	74	134	0.55
AIRPLANE PILOTS & NAVIGATORS.....	81	-1	1	0	0.0
ARCHITECTS.....	183	0	4	4	0.02
WKRS. IN ARTS & ENTERTAINMENT.....	6585	104	203	307	1.26
CLERGYMEN.....	4400	9	115	124	0.51
DESIGNERS, EXC. DESIGN DRAFTS.....	246	5	4	9	0.04
EDITORS & REPORTERS.....	1291	-131	42	-89	-0.37
LAWYERS & JUDGES.....	1775	9	51	60	0.25
LIBRARIANS.....	1357	11	64	75	0.31
PERSONNEL & LABOR RELATED WKRS....	792	22	16	38	0.16
PHOTOGRAPHERS.....	392	1	7	8	0.03
SOCIAL & WELFARE WORKERS.....	1561	56	49	105	0.43
PROF., TECH., KIND., NEC.....	9125	359	170	529	2.17
MANAGERS, OFFICIALS, PROPRIETORS.....	62448	419	1494	1913	7.85
CONDUCTORS, R.R.....	509	-2	19	17	0.07
CREDITMEN.....	339	2	8	10	0.04
OFFICERS, PILOTS, ENG. SHIP.....	166	2	3	5	0.02
PURCHASING AGENTS.....	1043	24	20	44	0.18
POSTMASTERS & ASSISTANTS.....	788	-14	32	18	0.07
OTHER MANAGERS, OFF., PROP. NEC.....	59603	407	1412	1819	7.47
CLERICAL & KINDRED.....	82079	1486	3192	4678	19.21
STENOS, TYPISTS, SECRETARIES.....	18589	431	896	1327	5.45
OFFICE MACHINE OPERATORS.....	1404	19	55	74	0.30
OTHER CLERICAL & KINDRED.....	62086	1036	2241	3277	13.46
ACCOUNTING CLERKS.....	503	3	22	25	0.10
BOOKKEEPERS, HAND.....	11959	81	487	568	2.33
BANK TELLERS.....	2167	61	78	139	0.57
CASHIERS.....	5410	173	215	388	1.59
MAIL CARRIERS.....	3070	63	49	112	0.46
POSTAL CLERKS.....	2343	57	44	101	0.41
SHIPPING, RECEIVING CLERKS.....	1191	5	20	25	0.10
TELEPHONE OPERATORS.....	3427	38	163	201	0.83
CLERICAL & KINDRED WORKERS NEC....	32016	555	1163	1718	7.05
SALES WORKERS.....	48270	359	1436	1795	7.37

OUTSTATE MINNESOTA EXCLUDING MPLS.-ST. PAUL AREA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
CRAFTSMEN.....	93907	1388	1701	3089	12.68
CONSTRUCTION CRAFTS.....	26205	152	502	654	2.69
CARPENTERS.....	9658	-25	222	197	0.81
BRICKMASONS & TILE SETTERS.....	1687	8	25	33	0.14
CEMENT, CONCRETE FINISHERS.....	323	5	4	9	0.04
ELECTRICIANS.....	3514	40	55	95	0.39
EXCAVATING, GRADING MACH. OP.....	3961	61	50	111	0.46
PAINTERS & PAPER HANGERS.....	2662	-19	69	50	0.21
PLASTERERS.....	427	0	7	7	0.03
PLUMBERS & PIPEFITTERS.....	3273	53	57	110	0.45
ROOFERS & SLATERS.....	317	3	6	9	0.04
STRUCTURAL METAL WORKERS.....	383	26	7	33	0.14
FOREMEN, NEC.....	12220	300	240	540	2.22
METAL WORKING CRAFTS.....	6452	76	120	196	0.80
MACHINISTS & RELATED.....	2720	29	54	83	0.34
BLACKSMITHS, FORGEMEN, HAMMER.....	398	-16	14	-2	-0.01
BOILERMAKERS.....	122	0	2	2	0.01
HEAT TREATERS, ANNEALERS.....	52	0	0	0	0.0
MILLWRIGHTS.....	797	16	14	30	0.12
MOLDERS, METAL EXC., COREMAKERS...	232	0	3	3	0.01
PATTERNMAKERS, METAL & WOOD.....	171	4	3	7	0.03
ROLLERS & ROLL HANDS.....	70	0	1	1	0.00
SHEET METAL WORKERS.....	1298	26	19	45	0.18
TOOL MAKERS & DIEMAKERS.....	592	17	10	27	0.11
PRINTING TRADE CRAFTS.....	2303	10	43	53	0.22
COMPOSITORS TYPESETTERS.....	1493	-13	32	19	0.08
ELECTROTYPERS, STEREOTYPERS.....	26	-1	0	-1	-0.00
ENGRAVERS EXC. PHOTOENGRAVER.....	76	1	1	2	0.01
PHOTOENGRAVER, LITHOGRAPHERS.....	155	9	2	11	0.05
PRESSMEN & PLATE PRINTERS.....	553	14	8	22	0.09
TRANSPORTATION & OTHER PUB.UTL.....	4184	35	65	100	0.41
LINEMEN & SERVICEMEN.....	3252	60	29	89	0.37
LOCOMOTIVE ENGINEERS.....	816	-2	35	33	0.14
LOCOMOTIVE FIREMAN.....	116	-23	1	-22	-0.09
MECHANICS & REPAIRMEN.....	30759	658	515	1173	4.82
AIRPLANE.....	447	10	4	14	0.06
MOTOR VEHICLE.....	10769	121	138	259	1.06
OFFICE MACHINE.....	377	10	3	13	0.05
RADIO & TV MECHANICS.....	1089	-3	9	6	0.02
RAILROAD & CARSHOP.....	333	-1	9	8	0.03
OTHER MECHANICS.....	17744	521	352	873	3.58
OTHER CRAFTSMEN & KINDRED.....	11784	157	216	373	1.53

OUTSTATE MINNESOTA EXCLUDING MPLS.-ST. PAUL AREA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BAKERS.....	1115	-6	30	24	0.10
CABINETMAKERS.....	951	21	24	45	0.18
CRANE DERRICK, HOISTMEN.....	1103	24	18	42	0.17
GLAZIERS.....	208	5	2	7	0.03
JEWELERS & WATCHMAKERS.....	386	-2	10	8	0.03
OPTICIANS, LENS GRINDERS.....	261	4	4	8	0.03
INSPECTORS, LOG & LUMBER.....	119	2	2	4	0.02
INSPECTORS, OTHER.....	827	13	20	33	0.14
UPHOLSTERERS.....	406	5	7	12	0.05
CRAFTSMEN & KINDRED, NEC.....	6408	91	99	190	0.78
OPERATIVES.....	118593	1922	2220	4142	17.01
SELECTED TRANS. & UTILITY OPER.....	33274	512	462	974	4.00
DRIVERS, BUS, TRUCK, TRACTOR.....	25452	390	306	696	2.86
DELIVERYMEN & ROUTEMEN.....	6414	128	133	261	1.07
BRAKEMEN & SWITCHMEN, R.R.....	938	-6	16	10	0.04
POWER STATION OPERATORS.....	273	0	5	5	0.02
SAILORS & DECKHANDS.....	197	0	2	2	0.01
SEMISKILLED METAL WORKERS.....	13163	422	231	653	2.68
FURNACEMEN, SMELTER, POWERS.....	302	2	4	6	0.02
HEATERS, METAL.....	74	1	1	2	0.01
WELDERS, & FLAMECUTTERS.....	6312	209	76	285	1.17
ASSEMBLERS.....	6475	210	150	360	1.48
SEMISKILLED TEXTILE WORKERS.....	2434	36	98	134	0.55
KNITTERS, LOOPERS, TOPPERS.....	35	0	1	1	0.00
SPINNERS.....	26	0	0	0	0.0
WEAVERS.....	111	-1	3	2	0.01
SEWERS & STITCHERS, MFG.....	2262	37	94	131	0.54
OTHER OPERATIVES.....	69722	952	1429	2381	9.78
ASBESTOS, INSULATION WORKERS.....	129	2	1	3	0.01
ATTENDANTS, AUTO SERVICE.....	6223	91	65	156	0.64
BLASTERERS & POWDERMEN.....	128	1	1	2	0.01
LAUNDRY & DRY CLEANING OP.....	3189	-7	123	116	0.48
MEAT CUTTERS EXC. MEAT PKG.....	1855	8	37	45	0.18
MINE OPERATIVES & LABORERS.....	3998	-8	56	48	0.20
OTHER OPERATIVES, NEC.....	54200	865	1146	2011	8.26
SERVICE WORKERS.....	101258	1462	4060	5522	22.67
PRIVATE HOUSEHOLD WKRS.....	14894	-283	855	572	2.35
PROTECTIVE SERVICE WORKERS.....	6370	178	144	322	1.32
FIREMEN.....	1189	43	30	73	0.30
GUARDS, WATCHMEN.....	1490	0	64	64	0.26
POLICEMEN, OTHER LAW ENF.....	3691	135	50	185	0.76
WAITERS, COOKS, BARTENDERS.....	31792	503	1220	1723	7.07

OUTSTATE MINNESOTA EXCLUDING MPLS.-ST. PAUL AREA

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BARTENDERS.....	3826	52	98	150	0.62
COOKS EXC. PRIVATE HOUSEHOLDS....	11491	203	453	656	2.69
COUNTER & FOUNTAIN WORKERS.....	1193	32	47	79	0.32
WAITERS & WAITRESSES.....	15282	216	622	838	3.44
OTHER SERVICE WORKERS.....	48202	1064	1841	2905	11.93
ATTENDANTS, HOSP. & OTHER INST...	12263	429	481	910	3.74
CHARWOMEN & CLEANERS.....	3888	96	170	266	1.09
JANITORS & SEXTONS.....	10064	134	413	547	2.25
NURSES, PRACTICAL.....	4056	135	218	353	1.45
SERVICE WORKERS, NEC.....	17931	270	559	829	3.40
FARMERS & FARM WORKERS.....	107560	-4144	2950	-1194	-4.90
FARMERS IN ECON. CLASSES I-IV.....	73141	-862	1628	766	3.15
OTHER FARMERS.....	25492	-2946	1165	-1781	-7.31
FARM WORKERS.....	8927	-336	157	-179	-0.73
LABORERS EXC. FARM & MINE.....	24832	-143	447	304	1.25

ECONOMIC REGION 1 - NORTHWEST
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	33812	52	908	960	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	3906	68	79	147	15.31
ENGINEERS TECHNICAL.....	191	9	2	11	1.15
NATURAL SCIENTISTS.....	24	1	0	1	0.10
MEDICAL, OTHER HEALTH WORKERS.....	775	8	6	14	1.46
TEACHERS (ELEM. & SEC.).....	1244	6	42	48	5.00
SOCIAL SCIENTISTS.....	0	0	0	0	0.0
OTHER PROF., TECH., & KIND.....	1672	44	29	73	7.60
ACCOUNTANTS & AUDITORS.....	82	1	1	2	0.21
ARCHITECTS.....	6	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	34	1	0	1	0.10
LAWYERS & JUDGES.....	66	0	1	1	0.10
PERSONNEL & LABOR RELATED WKRS...	7	0	0	0	0.0
OTHER.....	1477	42	27	69	7.19
MANAGERS, OFFICIALS, PROPRIETORS.....	2899	10	79	89	9.27
CLERICAL & KINDRED.....	3132	57	119	176	18.33
STENOS, TYPISTS, SECRETARIES.....	577	14	27	41	4.27
OFFICE MACHINE OPERATORS.....	23	0	0	0	0.0
OTHER CLERICAL & KINDRED.....	2532	43	92	135	14.06
BOOKKEEPERS.....	510	2	20	22	2.29
CASHIERS.....	140	3	5	8	0.83
SHIPPING, RECEIVING CLERKS.....	27	0	0	0	0.0
TELEPHONE OPERATORS.....	117	1	5	6	0.63
OTHER.....	1738	37	62	99	10.31
SALES WORKERS.....	1833	8	54	62	6.46
CRAFTSMEN.....	3604	59	61	120	12.50
CARPENTERS.....	551	-6	12	6	0.63
ELECTRICIANS.....	110	1	1	2	0.21
PLUMBERS & PIPEFITTERS.....	83	0	1	1	0.10
FOREMEN NEC.....	485	17	9	26	2.71
MACHINISTS & RELATED.....	73	3	1	4	0.42

ECONOMIC REGION 1 - NORTHWEST
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	25	0	0	0	0.0
BOILERMAKERS.....	3	0	0	0	0.0
MILLWRIGHTS.....	0	0	0	0	0.0
SHEET METAL WORKERS.....	27	1	0	1	0.10
TOOLMAKERS & DIEMAKERS.....	0	0	0	0	0.0
PRINTING TRADES CRAFTS.....	84	6	1	7	0.73
MECHANICS & REPAIRMEN.....	1192	26	18	44	4.58
OTHER CRAFTSMEN.....	971	11	18	29	3.02
OPERATIVES.....	4028	90	73	163	16.98
ASSEMBLERS.....	127	8	2	10	1.04
WELDERS.....	165	8	1	9	0.94
SEWERS & STITCHERS, MFG.....	0	0	0	0	0.0
DRIVERS & DELIVERYMEN.....	1237	18	17	35	3.65
OTHER OPERATIVES.....	2499	56	53	109	11.35
SERVICE WORKERS.....	4667	29	192	221	23.02
PRIVATE HOUSEHOLD.....	1077	-15	61	46	4.79
PROTECTIVE SERVICE WORKERS.....	159	5	4	9	0.94
WAITERS, COOKS, BARTNDRS, COUNTER....	1319	8	47	55	5.73
OTHER SERVICE WORKERS.....	2112	31	80	111	11.56
FARMERS & FARM WORKERS.....	8679	-269	232	-37	-3.85
LABORERS EXC. FARM.....	1064	0	19	19	1.98

ECONOMIC REGION 2 - NORTH

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	18890	-140	493	353	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	2336	9	49	58	16.43
ENGINEERS TECHNICAL.....	72	0	0	0	0.0
NATURAL SCIENTISTS.....	39	0	0	0	0.0
MEDICAL, OTHER HEALTH WORKERS.....	272	0	2	2	0.57
TEACHERS (ELEM. & SEC.).....	775	-3	26	23	6.52
SOCIAL SCIENTISTS.....	4	0	0	0	0.0
OTHER PROF., TECH., & KIND.....	1174	12	21	33	9.35
ACCOUNTANTS & AUDITORS.....	48	0	1	1	0.28
ARCHITECTS.....	0	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	19	0	0	0	0.0
LAWYERS & JUDGES.....	19	0	0	0	0.0
PERSONNEL & LABOR RELATED WKRS...	21	0	0	0	0.0
OTHER.....	1067	12	20	32	9.07
MANAGERS, OFFICIALS, PROPRIETORS.....	1883	-13	52	39	11.05
CLERICAL & KINDRED.....	1811	9	70	79	22.38
STENOS, TYPISTS, SECRETARIES.....	384	2	18	20	5.67
OFFICE MACHINE OPERATORS.....	10	0	0	0	0.0
OTHER CLERICAL & KINDRED.....	1417	7	52	59	16.71
BOOKKEEPERS.....	259	0	10	10	2.83
CASHIERS.....	182	5	7	12	3.40
SHIPPING, RECEIVING CLERKS.....	4	0	0	0	0.0
TELEPHONE OPERATORS.....	79	0	3	3	0.85
OTHER.....	893	2	32	34	9.63
SALES WORKERS.....	1250	3	37	40	11.33
CRAFTSMEN.....	2182	-9	35	26	7.37
CARPENTERS.....	253	-5	5	0	0.0
ELECTRICIANS.....	105	-1	1	0	0.0
PLUMBERS & PIPEFITTERS.....	74	0	1	1	0.28
FOREMEN NEC.....	251	-1	5	4	1.13
MACHINISTS & RELATED.....	11	0	0	0	0.0

ECONOMIC REGION 2 - NORTH

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	2	0	0	0	0.0
BOILERMAKERS.....	0	0	0	0	0.0
MILLWRIGHTS.....	92	-2	1	-1	-0.28
SHEET METAL WORKERS.....	31	0	0	0	0.0
TOOLMAKERS & DIEMAKERS.....	0	0	0	0	0.0
PRINTING TRADES CRAFTS.....	47	0	0	0	0.0
MECHANICS & REPAIRMEN.....	690	4	10	14	3.97
OTHER CRAFTSMEN.....	626	-4	12	8	2.27
OPERATIVES.....	2505	-26	47	21	5.95
ASSEMBLERS.....	7	0	0	0	0.0
WELDERS.....	69	-1	0	-1	-0.28
SEWERS & STITCHERS, MFG.....	25	0	1	1	0.28
DRIVERS & DELIVERYMEN.....	870	1	12	13	3.68
OTHER OPERATIVES.....	1534	-26	34	8	2.27
SERVICE WORKERS.....	2508	5	100	105	29.75
PRIVATE HOUSEHOLD.....	449	-10	25	15	4.25
PROTECTIVE SERVICE WORKERS.....	111	1	3	4	1.13
WAITERS, COOKS, BARTNDRS, COUNTER....	847	7	30	37	10.48
OTHER SERVICE WORKERS.....	1101	7	42	49	13.88
FARMERS & FARM WORKERS.....	2792	-89	74	-15	-4.25
LABORERS EXC. FARM.....	1623	-29	29	0	0.0

ECONOMIC REGION 3 - NORTHEAST

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	104742	456	2751	3207	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	14962	172	295	467	14.56
ENGINEERS TECHNICAL.....	1589	41	20	61	1.90
NATURAL SCIENTISTS.....	367	11	4	15	0.47
MEDICAL, OTHER HEALTH WORKERS.....	2855	7	25	32	1.00
TEACHERS (ELEM. & SEC.).....	3274	-13	112	99	3.09
SOCIAL SCIENTISTS.....	58	1	1	2	0.06
OTHER PROF., TECH., & KIND.....	6819	125	133	258	8.04
ACCOUNTANTS & AUDITORS.....	878	12	19	31	0.97
ARCHITECTS.....	32	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	332	5	6	11	0.34
LAWYERS & JUDGES.....	274	-1	8	7	0.22
PERSONNEL & LABOR RELATED WKRS...	187	6	3	9	0.28
OTHER.....	5116	103	97	200	6.24
MANAGERS, OFFICIALS, PROPRIETORS.....	9493	-20	262	242	7.55
CLERICAL & KINDRED.....	13938	128	557	685	21.36
STENOS, TYPISTS, SECRETARIES.....	3166	45	154	199	6.21
OFFICE MACHINE OPERATORS.....	173	-3	7	4	0.12
OTHER CLERICAL & KINDRED.....	10599	86	396	482	15.03
BOOKKEEPERS.....	1329	-1	54	53	1.65
CASHIERS.....	882	18	35	53	1.65
SHIPPING, RECEIVING CLERKS.....	188	0	3	3	0.09
TELEPHONE OPERATORS.....	455	0	21	21	0.65
OTHER.....	7745	69	283	352	10.98
SALES WORKERS.....	6278	-10	188	178	5.55
CRAFTSMEN.....	18497	152	333	485	15.12
CARPENTERS.....	986	-8	22	14	0.44
ELECTRICIANS.....	964	4	15	19	0.59
PLUMBERS & PIPEFITTERS.....	576	7	10	17	0.53
FOREMEN NEC.....	3147	55	62	117	3.65
MACHINISTS & RELATED.....	566	-4	11	7	0.22

ECONOMIC REGION 3 - NORTHEAST

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	73	-4	2	-2	-0.06
BOILERMAKERS.....	53	0	1	1	0.03
MILLWRIGHTS.....	399	4	7	11	0.34
SHEET METAL WORKERS.....	231	2	3	5	0.16
TOOLMAKERS & DIEMAKERS.....	63	0	1	1	0.03
PRINTING TRADES CRAFTS.....	329	2	6	8	0.25
MECHANICS & REPAIRMEN.....	5372	78	84	162	5.05
OTHER CRAFTSMEN.....	5738	16	109	125	3.90
OPERATIVES.....	19948	101	393	494	15.40
ASSEMBLERS.....	87	0	7	2	0.06
WELDERS.....	1261	29	15	44	1.37
SEWERS & STITCHERS, MFG.....	437	9	18	27	0.84
DRIVERS & DELIVERYMEN.....	5278	55	74	129	4.02
OTHER OPERATIVES.....	12885	8	284	292	9.11
SERVICE WORKERS.....	14520	36	576	612	19.08
PRIVATE HOUSEHOLD.....	2329	-55	134	79	2.46
PROTECTIVE SERVICE WORKERS.....	1497	32	40	72	2.25
WAITERS, COOKS, BARTNDRS, COUNTER....	3427	10	124	134	4.18
OTHER SERVICE WORKERS.....	7267	49	278	327	10.20
FARMERS & FARM WORKERS.....	2265	-45	60	15	0.47
LABORERS EXC. FARM.....	4841	-58	87	29	0.90

ECONOMIC REGION 4 - WEST

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	70101	326	1928	2254	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	9053	233	191	424	18.81
ENGINEERS TECHNICAL.....	329	13	4	17	0.75
NATURAL SCIENTISTS.....	94	3	1	4	0.18
MEDICAL, OTHER HEALTH WORKERS.....	1699	39	15	54	2.40
TEACHERS (ELEM. & SEC.).....	2796	51	93	144	6.39
SOCIAL SCIENTISTS.....	12	0	0	0	0.0
OTHER PROF., TECH., & KIND.....	4123	127	78	205	9.09
ACCOUNTANTS & AUDITORS.....	331	8	7	15	0.67
ARCHITECTS.....	4	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	92	3	1	4	0.18
LAWYERS & JUDGES.....	152	2	4	6	0.27
PERSONNEL & LABOR RELATED WKRS...	100	4	2	6	0.27
OTHER.....	3444	110	64	174	7.72
MANAGERS, OFFICIALS, PROPRIETORS.....	6368	32	175	207	9.18
CLERICAL & KINDRED.....	7430	161	292	453	20.10
STENOS, TYPISTS, SECRETARIES.....	1407	39	67	106	4.70
OFFICE MACHINE OPERATORS.....	451	14	17	31	1.38
OTHER CLERICAL & KINDRED.....	5572	108	208	316	14.02
BOOKKEEPERS.....	1079	8	43	51	2.26
CASHIERS.....	376	11	15	26	1.15
SHIPPING, RECEIVING CLERKS.....	164	1	2	3	0.13
TELEPHONE OPERATORS.....	557	10	26	36	1.60
OTHER.....	3396	78	122	200	8.87
SALES WORKERS.....	4804	25	143	168	7.45
CRAFTSMEN.....	8019	113	142	255	11.31
CARPENTERS.....	1289	-6	29	23	1.02
ELECTRICIANS.....	230	2	3	5	0.22
PLUMBERS & PIPEFITTERS.....	231	3	4	7	0.31
FOREMEN NEC.....	803	21	15	36	1.60
MACHINISTS & RELATED.....	132	2	2	4	0.18

ECONOMIC REGION 4 - WEST

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	69	-1	2	1	0.04
BOILERMAKERS.....	10	0	0	0	0.0
MILLWRIGHTS.....	7	0	0	0	0.0
SHEET METAL WORKERS.....	86	2	1	3	0.13
TOOLMAKERS & DIEMAKERS.....	8	0	0	0	0.0
PRINTING TRADES CRAFTS.....	322	1	6	7	0.31
MECHANICS & REPAIRMEN.....	2924	66	45	111	4.92
OTHER CRAFTSMEN.....	1908	23	35	58	2.57
OPERATIVES.....	7890	118	144	262	11.62
ASSEMBLERS.....	133	5	3	8	0.35
WELDERS.....	401	14	4	18	0.80
SEWERS & STITCHERS, MFG.....	94	1	3	4	0.18
DRIVERS & DELIVERYMEN.....	3140	49	44	93	4.13
OTHER OPERATIVES.....	4122	49	90	139	6.17
SERVICE WORKERS.....	10381	171	425	596	26.44
PRIVATE HOUSEHOLD.....	2384	0	134	134	5.94
PROTECTIVE SERVICE WORKERS.....	319	10	8	18	0.80
WAITERS, COOKS, BARTNDRS, COUNTER....	2993	41	107	148	6.57
OTHER SERVICE WORKERS.....	4685	120	176	296	13.13
FARMERS & FARM WORKERS.....	14120	-529	380	-149	-6.61
LABORERS EXC. FARM.....	2036	2	36	38	1.69

ECONOMIC REGION 5 - NORTH CENTRAL
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	44598	301	1181	1482	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	5104	117	109	226	15.25
ENGINEERS TECHNICAL.....	187	7	2	9	0.61
NATURAL SCIENTISTS.....	13	0	0	0	0.0
MEDICAL, OTHER HEALTH WORKERS.....	975	19	8	27	1.82
TEACHERS (ELEM. & SEC.).....	1816	27	61	88	5.94
SOCIAL SCIENTISTS.....	0	0	0	0	0.0
OTHER PROF., TECH., & KIND.....	2113	64	38	102	6.88
ACCOUNTANTS & AUDITORS.....	90	2	1	3	0.20
ARCHITECTS.....	0	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	39	1	0	1	0.07
LAWYERS & JUDGES.....	70	0	2	2	0.13
PERSONNEL & LABOR RELATED WKRS...	6	0	0	0	0.0
OTHER.....	1908	61	35	96	6.48
MANAGERS, OFFICIALS, PROPRIETORS.....	4288	34	117	151	10.19
CLERICAL & KINDRED.....	4051	83	155	238	16.06
STENOS, TYPISTS, SECRETARIES.....	687	19	32	51	3.44
OFFICE MACHINE OPERATORS.....	6	0	0	0	0.0
OTHER CLERICAL & KINDRED.....	3358	64	123	187	12.62
BOOKKEEPERS.....	601	6	24	30	2.02
CASHIERS.....	224	6	8	14	0.94
SHIPPING, RECEIVING CLERKS.....	32	0	0	0	0.0
TELEPHONE OPERATORS.....	159	1	7	8	0.54
OTHER.....	2342	51	84	135	9.11
SALES WORKERS.....	2858	30	84	114	7.69
CRAFTSMEN.....	5636	90	98	188	12.69
CARPENTERS.....	677	1	15	16	1.08
ELECTRICIANS.....	168	2	2	4	0.27
PLUMBERS & PIPEFITTERS.....	164	3	2	5	0.34
FOREMEN NEC.....	801	21	15	36	2.43
MACHINISTS & RELATED.....	165	1	3	4	0.27

ECONOMIC REGION 5 - NORTH CENTRAL
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	40	-1	1	0	0.0
BOILERMAKERS.....	19	0	0	0	0.0
MILLWRIGHTS.....	27	0	0	0	0.0
SHEET METAL WORKERS.....	68	1	1	2	0.13
TOOLMAKERS & DIEMAKERS.....	0	0	0	0	0.0
PRINTING TRADES CRAFTS.....	236	4	4	8	0.54
MECHANICS & REPAIRMEN.....	1706	39	26	65	4.39
OTHER CRAFTSMEN.....	1565	19	29	48	3.24
OPERATIVES.....	6733	103	130	233	15.72
ASSEMBLERS.....	231	4	5	9	0.61
WELDERS.....	382	12	4	16	1.08
SEWERS & STITCHERS, MFG.....	234	6	9	15	1.01
DRIVERS & DELIVERYMEN.....	1993	29	28	57	3.85
OTHER OPERATIVES.....	3893	52	84	136	9.18
SERVICE WORKERS.....	6065	95	242	337	22.74
PRIVATE HOUSEHOLD.....	1148	-3	64	61	4.12
PROTECTIVE SERVICE WORKERS.....	337	10	9	19	1.28
WAITERS, COOKS, BARTNDRS, COUNTER....	1740	23	62	85	5.74
OTHER SERVICE WORKERS.....	2840	65	107	172	11.61
FARMERS & FARM WORKERS.....	7964	-251	213	-38	-2.56
LABORERS EXC. FARM.....	1899	0	33	33	2.23

ECONOMIC REGION 6 - WEST CENTRAL
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	53861	207	1488	1695	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	7253	201	156	357	21.06
ENGINEERS TECHNICAL.....	161	7	2	9	0.53
NATURAL SCIENTISTS.....	63	2	0	2	0.12
MEDICAL, OTHER HEALTH WORKERS.....	1522	39	13	52	3.07
TEACHERS (ELEM. & SEC.).....	2664	59	88	147	8.67
SOCIAL SCIENTISTS.....	26	1	0	1	0.06
OTHER PROF., TECH., & KIND.....	2817	93	53	146	8.61
ACCOUNTANTS & AUDITORS.....	163	4	3	7	0.41
ARCHITECTS.....	0	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	63	2	1	3	0.18
LAWYERS & JUDGES.....	112	2	3	5	0.29
PERSONNEL & LABOR RELATED WKRS...	7	0	0	0	0.0
OTHER.....	2472	85	46	131	7.73
MANAGERS, OFFICIALS, PROPRIETORS.....	4994	36	137	173	10.21
CLERICAL & KINDRED.....	5172	118	202	320	18.88
STENOS, TYPISTS, SECRETARIES.....	928	28	44	72	4.25
OFFICE MACHINE OPERATORS.....	49	1	1	2	0.12
OTHER CLERICAL & KINDRED.....	4195	89	157	246	14.51
BOOKKEEPERS.....	1001	11	40	51	3.01
CASHIERS.....	350	11	13	24	1.42
SHIPPING, RECEIVING CLERKS.....	17	0	0	0	0.0
TELEPHONE OPERATORS.....	243	3	11	14	0.83
OTHER.....	2584	64	93	157	9.26
SALES WORKERS.....	3717	34	110	144	8.50
CRAFTSMEN.....	5698	92	98	190	11.21
CARPENTERS.....	706	-1	16	15	0.88
ELECTRICIANS.....	184	2	2	4	0.24
PLUMBERS & PIPEFITTERS.....	281	4	4	8	0.47
FOREMEN NEC.....	498	14	9	23	1.36
MACHINISTS & RELATED.....	82	2	1	3	0.18

ECONOMIC REGION 6 - WEST CENTRAL
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	47	0	1	1	0.06
BOILERMAKERS.....	6	0	0	0	0.0
MILLWRIGHTS.....	16	0	0	0	0.0
SHEET METAL WORKERS.....	52	1	0	1	0.06
TOOLMAKERS & DIEMAKERS.....	0	0	0	0	0.0
PRINTING TRADES CRAFTS.....	108	0	2	2	0.12
MECHANICS & REPAIRMEN.....	2017	49	31	80	4.72
OTHER CRAFTSMEN.....	1701	21	32	53	3.13
OPERATIVES.....	5758	98	105	203	11.98
ASSEMBLERS.....	179	8	4	12	0.71
WELDERS.....	326	14	3	17	1.00
SEWERS & STITCHERS, MFG.....	9	0	0	0	0.0
DRIVERS & DELIVERYMEN.....	1898	19	26	45	2.65
OTHER OPERATIVES.....	3346	57	72	129	7.61
SERVICE WORKERS.....	8225	160	339	499	29.44
PRIVATE HOUSEHOLD.....	2076	9	116	125	7.37
PROTECTIVE SERVICE WORKERS.....	193	6	5	11	0.65
WAITERS, COOKS, BARTNDRS, COUNTER....	2461	43	88	131	7.73
OTHER SERVICE WORKERS.....	3495	102	130	232	13.69
FARMERS & FARM WORKERS.....	11709	-532	318	-214	-12.63
LABORERS EXC. FARM.....	1335	0	23	23	1.36

ECONOMIC REGION 7 - CENTRAL

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	95202	1209	2560	3769	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	11899	336	245	581	15.42
ENGINEERS TECHNICAL.....	410	14	5	19	0.50
NATURAL SCIENTISTS.....	52	2	0	2	0.05
MEDICAL, OTHER HEALTH WORKERS.....	2346	62	20	82	2.18
TEACHERS (ELEM. & SEC.).....	3434	74	114	188	4.99
SOCIAL SCIENTISTS.....	0	0	0	0	0.0
OTHER PROF., TECH., & KIND.....	5657	184	106	290	7.69
ACCOUNTANTS & AUDITORS.....	280	7	6	13	0.34
ARCHITECTS.....	45	1	1	2	0.05
DESIGNERS & DRAFTSMEN.....	308	10	5	15	0.40
LAWYERS & JUDGES.....	169	2	4	6	0.16
PERSONNEL & LABOR RELATED WKRS...	20	0	0	0	0.0
OTHER.....	4835	164	90	254	6.74
MANAGERS, OFFICIALS, PROPRIETORS.....	7544	102	205	307	8.15
CLERICAL & KINDRED.....	9353	231	364	595	15.79
STENOS, TYPISTS, SECRETARIES.....	1567	46	75	121	3.21
OFFICE MACHINE OPERATORS.....	104	3	4	7	0.19
OTHER CLERICAL & KINDRED.....	7682	182	285	467	12.39
BOOKKEEPERS.....	1721	34	69	103	2.73
CASHIERS.....	598	27	23	50	1.33
SHIPPING, RECEIVING CLERKS.....	123	1	2	3	0.08
TELEPHONE OPERATORS.....	251	4	11	15	0.40
OTHER.....	4989	116	180	296	7.85
SALES WORKERS.....	6965	155	204	359	9.53
CRAFTSMEN.....	11669	221	207	428	11.36
CARPENTERS.....	1201	0	27	27	0.72
ELECTRICIANS.....	322	4	5	9	0.24
PLUMBERS & PIPEFITTERS.....	335	6	5	11	0.29
FOREMEN NEC.....	1400	38	27	65	1.72
MACHINISTS & RELATED.....	314	1	6	7	0.19

ECONOMIC REGION 7 - CENTRAL

ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	64	-1	2	1	0.03
BOILERMAKERS.....	9	0	0	0	0.0
MILLWRIGHTS.....	23	0	0	0	0.0
SHEET METAL WORKERS.....	214	4	3	7	0.19
TOOLMAKERS & DIEMAKERS.....	61	1	1	2	0.05
PRINTING TRADES CRAFTS.....	296	5	5	10	0.27
MECHANICS & REPAIRMEN.....	3909	111	60	171	4.54
OTHER CRAFTSMEN.....	3521	52	66	118	3.13
OPERATIVES.....	15361	287	301	588	15.60
ASSEMBLERS.....	996	15	23	38	1.01
WELDERS.....	1091	32	13	45	1.19
SEWERS & STITCHERS, MFG.....	386	11	15	26	0.69
DRIVERS & DELIVERYMEN.....	3709	72	51	123	3.26
OTHER OPERATIVES.....	9179	157	199	356	9.45
SERVICE WORKERS.....	15152	368	597	965	25.60
PRIVATE HOUSEHOLD.....	2649	10	148	158	4.19
PROTECTIVE SERVICE WORKERS.....	841	15	22	37	0.98
WAITERS, COOKS, BARTNDRS, COUNTER....	4448	125	157	282	7.48
OTHER SERVICE WORKERS.....	7214	218	270	488	12.95
FARMERS & FARM WORKERS.....	14376	-491	386	-105	-2.79
LABORERS EXC. FARM.....	2883	0	51	51	1.35

ECONOMIC REGION 8 - SOUTHWEST
ANNUAL - OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	52048	-208	1435	1227	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	6145	98	139	237	19.32
ENGINEERS TECHNICAL.....	231	6	3	9	0.73
NATURAL SCIENTISTS.....	19	0	0	0	0.0
MEDICAL, OTHER HEALTH WORKERS.....	1165	17	10	27	2.20
TEACHERS (ELEM. & SEC.).....	2532	27	85	112	9.13
SOCIAL SCIENTISTS.....	4	0	0	0	0.0
OTHER PROF., TECH., & KIND.....	2194	48	41	89	7.25
ACCOUNTANTS & AUDITORS.....	112	1	2	3	0.24
ARCHITECTS.....	0	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	54	1	1	2	0.16
LAWYERS & JUDGES.....	83	0	2	2	0.16
PERSONNEL & LABOR RELATED WKRS...	13	0	0	0	0.0
OTHER.....	1932	46	36	82	6.68
MANAGERS, OFFICIALS, PROPRIETORS.....	4517	-3	124	121	9.86
CLERICAL & KINDRED.....	5161	71	203	274	22.33
STENOS, TYPISTS, SECRETARIES.....	968	19	46	65	5.30
OFFICE MACHINE OPERATORS.....	17	0	0	0	0.0
OTHER CLERICAL & KINDRED.....	4176	52	157	209	17.03
BOOKKEEPERS.....	1001	3	40	43	3.50
CASHIERS.....	390	11	15	26	2.12
SHIPPING, RECEIVING CLERKS.....	43	0	0	0	0.0
TELEPHONE OPERATORS.....	232	0	11	11	0.90
OTHER.....	2510	38	91	129	10.51
SALES WORKERS.....	3884	14	116	130	10.59
CRAFTSMEN.....	5117	39	88	127	10.35
CARPENTERS.....	545	-5	12	7	0.57
ELECTRICIANS.....	181	0	2	2	0.16
PLUMBERS & PIPEFITTERS.....	195	1	3	4	0.33
FOREMEN NEC.....	610	9	12	21	1.71
MACHINISTS & RELATED.....	72	0	1	1	0.08

ECONOMIC REGION 8 - SOUTHWEST
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	21	-1	0	-1	-0.08
BOILERMAKERS.....	4	0	0	0	0.0
MILLWRIGHTS.....	10	0	0	0	0.0
SHEET METAL WORKERS.....	33	0	0	0	0.0
TOOLMAKERS & DIEMAKERS.....	14	0	0	0	0.0
PRINTING TRADES CRAFTS.....	112	0	2	2	0.16
MECHANICS & REPAIRMEN.....	1975	31	31	62	5.05
OTHER CRAFTSMEN.....	1345	4	25	29	2.36
OPERATIVES.....	6550	17	124	141	11.49
ASSEMBLERS.....	243	1	5	6	0.49
WELDERS.....	183	3	2	5	0.41
SEWERS & STITCHERS, MFG.....	5	0	0	0	0.0
DRIVERS & DELIVERYMEN.....	2104	5	29	34	2.77
OTHER OPERATIVES.....	4015	8	88	96	7.82
SERVICE WORKERS.....	7186	83	290	373	30.40
PRIVATE HOUSEHOLD.....	1382	-10	78	68	5.54
PROTECTIVE SERVICE WORKERS.....	211	5	5	10	0.81
WAITERS, COOKS, BARTNDRS, COUNTER....	2088	23	75	98	7.99
OTHER SERVICE WORKERS.....	3505	65	132	197	16.06
FARMERS & FARM WORKERS.....	12058	-517	326	-191	-15.57
LABORERS EXC. FARM.....	1430	-10	25	15	1.22

ECONOMIC REGION 9 - SOUTH CENTRAL
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITION
TOTAL.....	103557	909	2811	3720	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	13577	319	280	599	16.10
ENGINEERS TECHNICAL.....	547	23	7	30	0.81
NATURAL SCIENTISTS.....	52	2	0	2	0.05
MEDICAL, OTHER HEALTH WORKERS.....	2630	46	23	69	1.85
TEACHERS (ELEM. & SEC.).....	3722	45	125	170	4.57
SOCIAL SCIENTISTS.....	17	0	0	0	0.0
OTHER PROF., TECH., & KIND.....	6609	203	125	328	8.82
ACCOUNTANTS & AUDITORS.....	360	8	7	15	0.40
ARCHITECTS.....	16	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	194	6	3	9	0.24
LAWYERS & JUDGES.....	213	2	6	8	0.22
PERSONNEL & LABOR RELATED WKRS...	130	5	2	7	0.19
OTHER.....	5696	182	107	289	7.77
MANAGERS, OFFICIALS, PROPRIETORS.....	8083	66	221	287	7.72
CLERICAL & KINDRED.....	12184	276	483	759	20.40
STENOS, TYPISTS, SECRETARIES.....	2788	76	133	209	5.62
OFFICE MACHINE OPERATORS.....	105	3	4	7	0.19
OTHER CLERICAL & KINDRED.....	9291	197	346	543	14.60
BOOKKEEPERS.....	1820	19	73	92	2.47
CASHIERS.....	969	33	38	71	1.91
SHIPPING, RECEIVING CLERKS.....	200	3	3	6	0.16
TELEPHONE OPERATORS.....	457	4	21	25	0.67
OTHER.....	5845	138	211	349	9.38
SALES WORKERS.....	8021	104	237	341	9.17
CRAFTSMEN.....	12403	227	220	447	12.02
CARPENTERS.....	1200	-2	27	25	0.67
ELECTRICIANS.....	450	7	7	14	0.38
PLUMBERS & PIPEFITTERS.....	514	9	9	18	0.48
FOREMEN NEC.....	1612	49	31	80	2.15
MACHINISTS & RELATED.....	361	6	7	13	0.35

ECONOMIC REGION 9 - SOUTH CENTRAL
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	16	0	0	0	0.0
BOILERMAKERS.....	0	0	0	0	0.0
MILLWRIGHTS.....	19	0	0	0	0.0
SHEET METAL WORKERS.....	183	4	2	6	0.16
TOOLMAKERS & DIEMAKERS.....	51	1	0	1	0.03
PRINTING TRADES CRAFTS.....	433	9	8	17	0.46
MECHANICS & REPAIRMEN.....	3796	95	59	154	4.14
OTHER CRAFTSMEN.....	3768	49	70	119	3.20
OPERATIVES.....	16366	321	333	654	17.58
ASSEMBLERS.....	1365	41	31	72	1.94
WELDERS.....	523	20	6	26	0.70
SEWERS & STITCHERS, MFG.....	465	15	19	34	0.91
DRIVERS & DELIVERYMEN.....	3489	48	49	97	2.61
OTHER OPERATIVES.....	10524	197	228	425	11.42
SERVICE WORKERS.....	14521	240	570	810	21.77
PRIVATE HOUSEHOLD.....	2049	-13	116	103	2.77
PROTECTIVE SERVICE WORKERS.....	639	22	17	39	1.05
WAITERS, COOKS, BARTNDRS, COUNTER....	4529	75	162	237	6.37
OTHER SERVICE WORKERS.....	7304	156	275	431	11.59
FARMERS & FARM WORKERS.....	14990	-638	406	-232	-6.24
LABORERS EXC. FARM.....	3412	-6	61	55	1.48

ECONOMIC REGION 10 - SOUTHEAST
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITION
TOTAL.....	131651	604	3526	4130	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	18438	250	349	599	14.50
ENGINEERS TECHNICAL.....	1194	45	15	60	1.45
NATURAL SCIENTISTS.....	199	6	2	8	0.19
MEDICAL, OTHER HEALTH WORKERS.....	5758	33	52	85	2.06
TEACHERS (ELEM. & SEC.).....	4181	-2	142	140	3.39
SOCIAL SCIENTISTS.....	73	2	2	4	0.10
OTHER PROF., TECH., & KIND.....	7033	166	136	302	7.31
ACCOUNTANTS & AUDITORS.....	651	11	14	25	0.61
ARCHITECTS.....	29	0	0	0	0.0
DESIGNERS & DRAFTSMEN.....	313	9	6	15	0.36
LAWYERS & JUDGES.....	267	0	7	7	0.17
PERSONNEL & LABOR RELATED WKRS....	182	6	3	9	0.22
OTHER.....	5591	140	106	246	5.96
MANAGERS, OFFICIALS, PROPRIETORS.....	9510	30	262	292	7.07
CLERICAL & KINDRED.....	17275	280	683	963	23.32
STENOS, TYPISTS, SECRETARIES.....	3925	77	189	266	6.44
OFFICE MACHINE OPERATORS.....	246	7	9	16	0.39
OTHER CLERICAL & KINDRED.....	13104	196	485	681	16.49
BOOKKEEPERS.....	2180	8	89	97	2.35
CASHIERS.....	1144	32	45	77	1.86
SHIPPING, RECEIVING CLERKS.....	414	3	6	9	0.22
TELEPHONE OPERATORS.....	520	5	24	29	0.70
OTHER.....	8846	148	321	469	11.36
SALES WORKERS.....	9314	57	277	334	8.09
CRAFTSMEN.....	16784	244	302	546	13.22
CARPENTERS.....	1845	-6	42	36	0.87
ELECTRICIANS.....	551	7	8	15	0.36
PLUMBERS & PIPEFITTERS.....	710	12	12	24	0.58
FOREMEN NEC.....	2140	53	42	95	2.30
MACHINISTS & RELATED.....	684	11	13	24	0.58

ECONOMIC REGION 10 - SOUTHEAST
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	27	0	0	0	0.0
BOILERMAKERS.....	9	0	0	0	0.0
MILLWRIGHTS.....	57	1	1	2	0.05
SHEET METAL WORKERS.....	300	7	4	11	0.27
TOOLMAKERS & DIEMAKERS.....	254	7	4	11	0.27
PRINTING TRADES CRAFTS.....	467	0	9	9	0.22
MECHANICS & REPAIRMEN.....	5060	97	79	176	4.26
OTHER CRAFTSMEN.....	4680	55	88	143	3.46
OPERATIVES.....	22825	312	456	768	18.60
ASSEMBLERS.....	1853	55	43	98	2.37
WELDERS.....	994	36	11	47	1.14
SEWERS & STITCHERS, MFG.....	237	3	9	12	0.29
DRIVERS & DELIVERYMEN.....	4790	61	67	128	3.10
OTHER OPERATIVES.....	14951	157	326	483	11.69
SERVICE WORKERS.....	17268	104	689	793	19.20
PRIVATE HOUSEHOLD.....	2909	-59	167	108	2.62
PROTECTIVE SERVICE WORKERS.....	1319	38	35	73	1.77
WAITERS, COOKS, BARTNDRS, COUNTER....	4950	42	178	220	5.33
OTHER SERVICE WORKERS.....	8090	83	309	392	9.49
FARMERS & FARM WORKERS.....	16040	-648	433	-215	-5.21
LABORERS EXC. FARM.....	4197	-25	75	50	1.21

ECONOMIC REGION 11 - METROPOLITAN
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
TOTAL.....	868814	18689	23559	42248	100.00
PROFESSIONAL, TECHNICAL, KINDRED.....	153852	4866	2851	7717	18.27
ENGINEERS TECHNICAL.....	22045	814	283	1097	2.60
NATURAL SCIENTISTS.....	3516	122	45	167	0.40
MEDICAL, OTHER HEALTH WORKERS.....	26237	815	231	1046	2.48
TEACHERS (ELEM. & SEC.).....	18986	221	640	861	2.04
SOCIAL SCIENTISTS.....	1476	48	45	93	0.22
OTHER PROF., TECH., & KIND.....	81592	2846	1607	4453	10.54
ACCOUNTANTS & AUDITORS.....	12669	350	271	621	1.47
ARCHITECTS.....	775	18	18	36	0.09
DESIGNERS & DRAFTSMEN.....	7143	223	136	359	0.85
LAWYERS & JUDGES.....	3470	60	100	160	0.38
PERSONNEL & LABOR RELATED WKRS...	2452	84	51	135	0.32
OTHER.....	55083	2111	1031	3142	7.44
MANAGERS, OFFICIALS, PROPRIETORS.....	71988	1139	1958	3097	7.33
CLERICAL & KINDRED.....	180818	4395	7185	11580	27.41
STENOS, TYPISTS, SECRETARIES.....	47775	1357	2290	3647	8.63
OFFICE MACHINE OPERATORS.....	10396	394	402	796	1.88
OTHER CLERICAL & KINDRED.....	122647	2644	4493	7137	16.89
BOOKKEEPERS.....	13867	244	559	803	1.90
CASHIERS.....	10026	385	397	782	1.85
SHIPPING, RECEIVING CLERKS.....	4491	40	75	115	0.27
TELEPHONE OPERATORS.....	4545	81	215	296	0.70
OTHER.....	89718	1894	3247	5141	12.17
SALES WORKERS.....	72300	1242	2131	3373	7.98
CRAFTSMEN.....	120187	2292	2177	4469	10.58
CARPENTERS.....	7032	7	161	168	0.40
ELECTRICIANS.....	3677	55	57	112	0.27
PLUMBERS & PIPEFITTERS.....	4122	84	72	156	0.37
FOREMEN NEC.....	17892	498	350	848	2.01
MACHINISTS & RELATED.....	9896	73	198	271	0.64

ECONOMIC REGION 11 - METROPOLITAN
ANNUAL OCCUPATIONAL DEMAND FOR 1973

OCCUPATION-----	1973 DEMAND	ANNUAL GROWTH OR DECLINE	ANNUAL REPLACE- MENT	1973 UNFILLED POSITIONS	PERCENT OF TOTAL UNFILLED POSITIONS
BLACKSMITH, FORGE., HAMMER.....	225	-3	7	4	0.01
BOILERMAKERS.....	154	0	3	3	0.01
MILLWRIGHTS.....	742	18	13	31	0.07
SHEET METAL WORKERS.....	2588	47	38	85	0.20
TOOLMAKERS & DIEMAKERS.....	3512	81	61	142	0.34
PRINTING TRADES CRAFTS.....	5554	49	107	156	0.37
MECHANICS & REPAIRMEN.....	33071	883	515	1398	3.31
OTHER CRAFTSMEN.....	31722	500	595	1095	2.59
OPERATIVES.....	136398	2609	2760	5369	12.71
ASSEMBLERS.....	17833	390	419	809	1.91
WELDERS.....	6346	215	76	291	0.69
SEWERS & STITCHERS, MFG.....	1555	21	64	85	0.20
DRIVERS & DELIVERYMEN.....	26135	504	366	870	2.06
OTHER OPERATIVES.....	84529	1479	1835	3314	7.84
SERVICE WORKERS.....	101695	2516	3877	6393	15.13
PRIVATE HOUSEHOLD.....	10151	-110	578	468	1.11
PROTECTIVE SERVICE WORKERS.....	6086	155	163	318	0.75
WAITERS, COOKS, BARTNDRS, COUNTER....	31104	834	1102	1936	4.58
OTHER SERVICE WORKERS.....	54354	1637	2034	3671	8.69
FARMERS & FARM WORKERS.....	5838	-315	159	-156	-0.37
LABORERS EXC. FARM.....	25738	-55	461	406	0.96

APPENDIX

BOUNDARIES OF ECONOMIC REGIONS

